

Issue 39 | April 2018

# The Market Monitor

This bulletin examines trends in staple food and fuel prices, the cost of the basic food basket and consumer price indices for 68 countries in the first quarter of 2018 (January to March).<sup>1</sup> The maps on pages 6–7 provide analysis at sub-national level.

# **Global Highlights**

- In Q1-2018, the FAO cereal price index rose by 8.6 percent from Q1-2017, while the global food price index declined by 2 percent year-on-year.
- The real price<sup>2</sup> for wheat was 22 percent above Q1-2017 levels: crops suffered dryness in the United States and cold weather in Europe and the Commonwealth of Independent States, leaving production forecasts open to a downward revision.<sup>3</sup> World ending stocks remain at record levels.
- The real price for maize was 6 percent higher than last quarter but stable compared to Q1-2017. Overall favourable crop conditions offset mixed production outcomes in the southern African regions, leading to firm world supplies.
- The real price of rice increased by 14 percent from Q1-2017, with a slight contraction of stocks in exporting countries and increased buying interest from importing countries.
- In Q1, the real price of crude oil increased by 5 percent from the previous quarter following an agreement on extensive production cuts in major oil-producing countries.

CHANGES OF REAL PRICES											
Quarterly Change	Maize	Wheat	Rice	Note: Comparison to							
q1-2018 vs. q4-2017	6%	3%	4%	Fourth quarter in 2017							
q1-2018 vs. q1-2017	0%	22%	14%	Same quarter in 2017							
q1-2018 vs. q1-2008		-60%		Global wheat price peak in 2008							
q1-2018 vs. q2-2008	-46%		-57%	Global maize and rice price peak in 2008							

- The cost of the basic food basket increased severely (>10%) in Q1-2018 in five countries: Bangladesh, Central African Republic, Rwanda, the Sudan and Yemen. *High* increases (5–10%) were seen in Indonesia, Iraq, Myanmar, South Sudan, Turkey and Viet Nam. In the other monitored countries, the change was *moderate* or *low* (<5%).
- Price spikes, as monitored by <u>ALPS</u>, were detected in 19 countries, particularly in **Burkina Faso**, **Haiti**, **Mali**, **Sudan**, **Sri Lanka**, **South Sudan** and **the Sudan** (see the map below).<sup>4</sup> These spikes indicate *crisis* levels for the two most important staples in each country, which could be maize, milk, millet, oil, rice, sorghum, sweet potatoes or wheat.



 Data were collected and collated by WFP country offices and are available at <u>http://foodprices.vam.wfp.org</u>. Additional data sources are FAO Food Price Index, FAO/GIEWS Food Price Data and Analysis Tool, and World Bank prices on 20 April 2018.

- 2. Nominal prices are adjusted by the US Consumer Price Index.
- 3. AMIS Market Monitor, Issue 56, March 2018.

<sup>4.</sup> A market is designated as a hotspot if prices for the country's two most important caloric contributors reached ALPS crisis level during Q1-2018, and they did not return to normal levels by the end of the quarter. Note that for some markets/countries, prices are monitored but the price series may not necessarily qualify for ALPS calculation (see the <u>Price Forecasts & Alerts website</u> for details).

Low (< 0%)

# Price trends and impacts by region (Change from last quarter)

Impact Codes (q/q)

Moderate (0-5%)

High (5-10%)

Severe (> 10%)

## Latin America and Caribbean

**Hotspots:** The impact of staple food price changes on the cost of the basic food basket in Q1-2018 was moderate in **Ecuador, Haiti, Honduras, Nicaragua, Panama** and **Peru**; and low in the other countries.

• Staple commodity prices: In Honduras, roads were closed to prevent turmoil from spreading during the elections; this delayed the distribution of red bean supplies from producing areas, triggering speculative behaviour: bean prices rose by 11 percent in Q1-2018 even though the harvest continued into January. In Nicaragua, bean prices were in line with post-harvest trends, increasing from Q4-2017 (+13%) but at similar levels to Q1-2017. Cereal prices fell from Q4-2017 in Bolivia (-13% maize), **Colombia** (-1% maize; -7% rice) and **Dominican Republic** (-2% rice) reflecting ample regional supplies. In Haiti, the price of local rice rose significantly from Q4-2017 in most departments hit by the 2017 hurricanes (+18% Centre; +6% Ouest; +6% Sud; +8% Sud-Est) and was on average 23 percent higher than in 2017 because of a severe lack of rainfed paddy fields.

- Fuel prices: Quarterly fuel prices edged up in Nicaragua and Honduras (+3.8% gasoline; +5.5% diesel) in response to the increase in the reference price for West Texas Intermediate crude oil after damage by Hurricane Irma slowed petroleum refining in the southern United States. In Colombia, the introduction of a green tax in January saw prices rise significantly from 2017 (+10% gasoline; +7.4% diesel).
- Purchasing power: In Venezuela, year-on-year (y/y) headline inflation spiralled at nearly 9,000 percent as the country continued to finance its fiscal deficit by printing money. In January, the elimination of the subsidized foreign exchange rate for importing food and medicines

   the DIPRO – and the devaluation of the bolivar by over 99 percent exacerbated the shortage of food, fuel and other essential goods. In Haiti, the national currency

rebounded by 4 percent from Q1-2017 against the US dollar after the government announced that the gourde would be the only currency for in-country transactions in the attempt to protect foreign reserves; y/y changes in the CPI remained high (+13% CPI; +12% food CPI).

Ecuador Haiti Honduras Nicaragua Panama Peru Bolivia Colombia Dominican Republic Guatemala

## **Southern Africa**

**Hotspots:** The impact of staple food price changes on the cost of the basic food basket in Q1-2018 was moderate in **Zimbabwe**; and low in the other countries.

 Staple commodity prices: In Tanzania, maize prices dropped from Q4-2017 (-17%) as the harvest was underway in northern bimodal regions and favourable production forecasts moderated price expectations for the upcoming 2018 seasons; prices were also down from the record high levels reached in Q1-2017 (-52%). A new maize export ban in Malawi helped ease maize prices from Q4-2017 (-12%) and last year (-52%) Mozambique saw imported food prices ease from Q1-2017 thanks to a stronger currency (-6% rice; -33% vegetable oil). The price of local crops also declined from last year, reflecting better availability (-57% maize; -19% wheat flour); nevertheless, unfavourable production forecasts generated localized price increases for maize in Tete (+30%) and Zambezia (+17%) compared to Q4-2017. In the Democratic Republic of the Congo, although the harvest

season in central Katanga and imports from Zambia brought maize prices down slightly from Q4-2017 (-2%), disruptions to production and trade raised the cost of main staples in Sud Kivu over the same period (+12% wheat flour; +14% palm oil).

- Fuel prices: Quarterly fuel prices rose in Mozambique (+5.9% diesel) and Tanzania (+9.5% gasoline; +13% diesel) as the cap prices for liquid fuels were revised upwards.
- Purchasing power: After abandoning the dollar peg in early January, the central bank of Angola devalued the national currency by nearly 19 percent from Q4-2017, in a bid to reduce the difference between the official and black market exchange rates; rising import costs sustained y/y headline inflation, which remained high (+22%). High y/y inflation continued to hit the Democratic

**Republic of the Congo** (+49%) because of high government spending and currency depreciation. In **Malawi**, headline inflation met the central bank's singledigit target (+9.9% q/q; +8.6% y/y); nevertheless, the food CPI was markedly higher than last quarter (+18%) and monetary authorities have warned of a major risk of rising national prices in the coming months, driven by potential shortfalls in 2018 cereal production.

#### Zimbabwe

Congo (DR) Lesotho Madagascar Malawi Mozambique Swaziland Tanzania Zambia

### **Central and Eastern Africa**

**Hotspots:** The cumulative impact of staple food price changes on the cost of the basic food basket in Q1-2018 was severe in **Rwanda**; high in **South Sudan**; moderate in **Djibouti**; and low in the other countries.

 Staple commodity prices: In Rwanda, bean prices rose by 19 percent as lower-than-average production from the ongoing harvest came under pressure from increasing demand in Uganda. By contrast, cereal crops from the January/February harvest allowed local markets to meet cereal demand, causing a 10 percent fall in the quarterly price for maize. Continuous local currency depreciation heavily influenced the quarterly price for imported sorghum in northern states of **South Sudan** (+25% in Northern Bahr El Ghazal; +51% Warrap; +160% Western Bahr El Ghazal), where a poor sorghum harvest reduced the availability of local crops, increasing the demand for imports while trade flows were disrupted by conflict. The price of sorghum substitutes such as wheat flour also soared, rising by over 50 percent from Q4-2017 in the same areas. The <u>ALPS</u> indicator flagged nearly all monitored markets at crisis level for beans, sorghum and

oil. In **Ethiopia**, prices remained well above their Q1-2017 levels for all main staples, including maize (+27%), pasta (+20%) and sorghum (+37%). In **Kenya**, crossborder trade flows with Uganda and Tanzania topped up maize stocks and eased prices from Q4-2017 even after the end of the harvest in Nyanza (-7%) and Rift Valley (-2%); there were seasonal maize price increases in north-eastern (+3%) and coastal areas (+9%).

- Fuel prices: In South Sudan, fuel prices dropped from last quarter (-8.2% gasoline; -35% diesel) as fuel availability slowly improved, but prices remained far above those recorded in Q1-2017 (+129% gasoline; +55% diesel).
- Purchasing power: Currency depreciation did not stop in South Sudan during Q1-2018: the pound has fallen by nearly 41 percent since Q1-2017 on the official currency market and it was half its value on the parallel one; y/y hyperinflation (+117% CPI)

persists because of soaring import costs. In **Ethiopia**, the 17 percent devaluation of the official exchange rate from Q1-2017 did not reduce the spread from the black market rate, which also depreciated by 19 percent during the same period. Y/y inflation remained high (+15% CPI; +20% food CPI) under the pressure of rising import costs and growing shortages of foreign currency.



#### West Africa

**Hotspots:** The impact of staple food price changes on the cost of the basic food basket in Q1-2018 was severe in the **Central African Republic**; moderate in **Burkina Faso, Cameroon, Cape Verde, Chad, Guinea, Guinea-Bissau, Mali, Mauritania, Niger** and **Sierra Leone**; and low in the other countries.

• Staple commodity prices: The progressive reduction in area planted in conflict zones of the Central African Republic is curtailing stocks and shrinking the purchasing power of rural households. The price of cassava shot up since Q4-2017 (+28%) as households use it as a substitute for more expensive cereals, such as maize (+39% from Q4-2017) In **Mauritania**, the failure of 2017 sorghum production accelerated the depletion of stocks, driving prices up by 30 percent from last quarter and pushing them to ALPS crisis level in Tentane and Magta-lahjar. Mali saw a seasonal price increase from Q4-2017 for millet (+3%), maize (+3%) and sorghum (+5%) after the end of the harvest season. The average price for imported rice fell thanks to currency appreciation and the local rice harvest; nevertheless, security incidents continued to slow down trade to central regions, triggering

a localized 10 percent price rise for rice imports in Segou. Guinea-Bissau has seen a 20 percent increase in the price of imported rice since Q4-2017 because of the upward trend of rice quotations in the country's major trade partners in Asia. In Chad, household cereal stocks began to decline in Q1-2018 after the November harvest, increasing pressure on local markets: prices rose markedly in low production areas such as Hadjer Lamis (+10% millet; +17% maize) and where an increased influx of refugee from the Sudan added to local demand, such as in Ouaddai (+27% sorghum; +15% millet).

- Fuel prices: In Nigeria the upward revision of reference fuel prices after the increase in landed costs discouraged private imports, which are needed to complement local production: quarterly fuel prices rose significantly as a result (+28% gasoline; +11% diesel).
- Purchasing power: Although Nigeria's currency gained 5 percent against the US dollar from Q4-2017, higher fuel prices and an increasing food CPI (+18% y/y) sustained y/y headline inflation (+14%) well above the national target. In the **Gambia**, political instability since early 2017 has undermined foreign investor confidence, reducing the demand for the national currency as well as foreign reserves: the official value of the dalasi has declined by 8 percent since Q1-2017.

Centra African Republ	
	Côte d'Ivoire
	Ghana
	North Nigeria
urkina Faso	Senegal
Cameroon	· · · · · · · · · · · · · · · · · · ·
Cape Verde	Guinea-Bissau
Chad	Mali
Guinea	Mauritania
	Niger
	Sierra Leone

## Middle East, North Africa and Central Asia

**Hotspots:** The impact of staple food price changes on the cost of the basic food basket in Q1-2018 was severe in the **Sudan and Yemen**; high in **Turkey** and **Iraq**; moderate in **Armenia** and **Georgia**; and low in the remaining countries.

 Staple commodity prices: The prices of main cereals skyrocketed from Q4-2017 across all states of the Sudan (+57% sorghum; +43% millet) and reached ALPS *crisis* level in all monitored markets. Demand for cereals has increased steadily since January as households use them as substitutes for imported products; meanwhile, cereal supplies shrank in 2017 after farmers switched to more profitable crops. In Yemen, the recent re-opening of entry points for imports failed to provide relief to local food markets because severe damage to trade infrastructure, persistent insecurity and soaring transport costs prevent regular supply flows. Additional taxation at customs, increasing reliance on parallel exchange rate markets and speculative stock withholding were further burdens on the price of all staples compared to last quarter (+10% wheat; +12% sugar; +11% oil; +14% rice). In besieged areas of Syria, the conflict has pushed some traders to close their businesses and supplies are barely reaching local markets, with consequent price hikes from Q4-2017 in Aleppo (+68% sugar; +39% oil). Although prices in the Damascus area were relatively

stable in Q1-2018, continued air bombing devastated markets in eastern Ghouta, reducing market access and food availability to a minimum. The WFP Syria country office reports that bread prices in this area were nearly 30 times higher than in the rest of the governorate in January. Wheat flour prices followed mixed trends in **Iraq**, rising in Erbil (+31%), Qadissiya (+52%) and Kerbala (+11%) but decreasing elsewhere. In **Turkey**, the impact of currency depreciation on wheat and dairy import costs continued to drive up the quarterly nominal price for locally processed staples such as bread (+8%) and pasteurized milk (+13%). Food prices generally eased from Q4-2017 in Egypt (-4% pasta; -2% rice; -6% sugar) and Tajikistan (-9% sugar; -4% oil; -1% maize; -2% bread) as national currencies came back on track after recent steep depreciation.

- Fuel prices: In Yemen, fuel remained scarce and prices soared from Q1-2017 (+45% gasoline; +70% diesel). Armenia saw repeated fuel price hikes from Q4-2017 (+8.4% gasoline; +13% diesel) following an increase in excise tax on fuels.
- **Purchasing power:** Inflation spiralled in the **Sudan** (+27% q/q; +50% y/y), mostly triggered by the central bank's decision to devalue the pound and align it with the parallel market rate. The removal of subsidies for wheat - a widely consumed and mostly imported product - aggravated imported food inflation in January. Y/y inflation was also high in **Ukraine** (+13%), driven by changing food prices (+17%). Iran's national currency lost 11 percent of its value in Q4-2017 under the pressure of lower availability of foreign currency and the concerns about the country's competitiveness on export markets.



#### Asia

**Hotspots:** The impact of staple food price changes on the cost of the basic food basket in Q1-2018 was severe in **Bangladesh**; high in **Indonesia, Myanmar** and **Viet Nam**; moderate in **Afghanistan, Cambodia, Pakistan, the Philippines** and **Thailand**; and low in the other countries.

#### • Staple commodity prices:

The large-scale floods that hit Bangladesh in 2017 severely damaged agricultural infrastructure and paddy fields in north-western regions, reducing output: rice prices rose sharply in these areas from Q4-2017 (+33% Dhaka; +45% Khulna; +33% Rajshahi) because of dwindling local stocks. Basmati rice prices in Pakistan were much higher than last year in Balochistan (+48%) because of repeated production failures. In Indonesia, below-average rice supplies and rising prices during the harvest season (+5% from Q4-2017) led the government to open the country to imports. The price of emata rice was also on the rise from Q4-2017 in Myanmar (+5%); national authorities are supporting

the expansion of the export market while sustaining farmers by introducing minimum reference prices and tighter quality controls.

- Fuel prices: In Pakistan, fuel prices rose (+12% gasoline; +14% diesel) after national authorities revised cap prices upwards to follow the rising international quotation for crude oil.
- Purchasing power: Q/q inflation was low or negative in most countries of the region. In Bangladesh, the upward trend of rice prices caused by supply shortages was one of the main drivers of the 7 percent increase in the food CPI from Q1-2017. In Sri Lanka, y/y food inflation decelerated from the previous

quarter falling back to single digits (+7.2%) and helping to reduce y/y headline inflation to 5 percent. In **Thailand** the national currency appreciated steadily (+11% y/y) in response to a growing influx of foreign capital encouraged by attractive interest rates.



## **Consumer Price Index and Exchange Rates**

n	Country		Quarter-on-Quarter	Quarterly and Yearly Changes	in Q1-2016 (January to Warch)	Year-on-Year	
·	country	General CPI	Food CPI	Currency (LCU/USD)	General CPI	Food CPI	Currency (LCU/USD
Bolivia		0.73%	0.78%	-0.01%	2.84%	3.33%	0.11%
Colom		1.50%	0.70%	4.52%	3.40%	5.55%	2.11%
			1 30%			2.20%	
Costa		0.90%	1.28%	-0.23%	2.41%	2.29%	-2.79%
Comment Automation (Control of Control of Co	nican Republic	1.14%	2.29%	-2.66%	3.59%	4.79%	-4.55%
Ecuado		0.35%	0.59%		-0.15%	-0.77%	
El Salv		0.34%			1.19%		
Guater	mala	0.46%		-0.40%	4.33%		0.91%
Haiti		2.24%	2.05%	-2.58%	12.57%	12.47%	4.06%
Hondu		1.44%	1.74%	-0.30%	4.42%	4.64%	-0.57%
Nicara		1.66%	0.85%	-1.34%	4.99%	4.55%	-5.02%
Panam	na	0.48%		0.00%	0.45%		0.00%
Peru		0.49%		0.19%	0.93%		1.47%
Venezi	uela			-99.95%	8900.00%*		-99.95%
Angola	3	3.99%		-18.94%	21.68%		-18.95%
Congo	(DR)			-1.56%	48.85%*	49.9%*	-20.57%
Lesoth	10		3.05%	13.88%		6.71%	10.61%
Madag	gascar			-0.36%			-0.24%
Malaw	<i>r</i> i	9.92%	17.97%	0.18%	8.56%	10.29%	0.30%
Mozan		1.95%		-0.67%	3.27%		16.29%
Namib		1.95%		13.88%	3.54%		10.93%
Swazila				13.93%			10.74%
Tanzar		2.33%	4.15%	-0.47%	3.97%	5.45%	-1.07%
Zambia		2.93%	3.48%	2.06%	6.46%	5.00%	0.25%
Zimbal		0.86%			3.08%	and the second s	
Buruno		-2.70%	-6.10%	-0.65%	0.71%	-2.92%	-3.98%
Djibou		2.7078	4.60%	0.18%	0.7 270	2.75%	0.36%
		2 024/			14 724		
Ethiop		2.83%	0.41%	-2.02%	14.73%	19.61%	-17.35%
Kenya		3.01%		1.48%	4.57%		1.44%
Rwand		-1.73%	-5.09%	-1.68%	-0.91%	-6.89%	-4.23%
Somali				-1.03%			-4.66%
South		18.22%		-1.51%	116.74%		-40.73%
Ugand		-0.08%	-3.97%	-0.44%	1.72%	2.04%	-1.48%
Benin		-0.66%	-4.22%	5.31%	1.43%	0.64%	16.07%
Burkin	a Faso	-0.52%	2.59%	5.31%	1.95%	3.50%	16.07%
Camer	roon			3.66%			11.55%
Cape V		0.28%	0.70%	4.33%	0.92%	0.54%	15.40%
Centra	al African Republic			3.66%			11.55%
Chad				3.66%			11.55%
Côte d	l'Ivoire	0.52%		5.31%	0.03%		16.07%
Gambi	ia			-1.02%			-8.21%
Ghana		3.39%	4.51%	-0.06%	10.45%	7.10%	-1.46%
Mali		-1.05%	-3.29%	5.31%	2.10%	2.21%	16.07%
Maurit	tania	-0.34%	10.56%	0.54%	2.65%	3.97%	1.02%
Niger			0.40%	5.31%		6.27%	16.07%
Nigeria	а	2.26%	2.38%	4.80%	14.24%	17.51%	1.64%
Senega	al	-0.40%	1.11%	5.31%	0.70%	1.77%	16.07%
Algeria	3	0.41%		0.65%	2.54%		-3.65%
Armen		4.23%	8.65%	0.35%	3.12%	4.23%	0.98%
Armen		-1.47%	4.33%	-0.19%	5.31%	5.72%	4.96%
and the second se		0.64%	0.44%	0.33%	14.93%	13.90%	0.73%
Egypt	in the second						
Georgi	10	1.54%	0.65%	4.47%	3.22%	4.00%	5.14%
Iran		2.65%		-4.33%	8.34%		-11.31%
Iraq		2 100	0.100	-0.96%	2 724/	0.15%	-0.16%
Jordan		2.16%	0.16%	-0.04%	3.73%	0.15%	-0.07%
Kyrgyz		1.77%	4.0001	1.16%	3.15%	0.504	1.27%
Leband		0.88%	1.83%	-0.14%	5.04%	3.52%	-0.12%
	of Palestine	-0.60%	-0.96%		-1.14%	-3.49%	
Sudan		27.30%		-54.82%	50.47%		-56.10%
	Arab Republic			-0.01%			0.00%
Tajikist		-0.41%	7.58%	-0.12%	-0.15%	5.82%	-9.68%
Turkey		2.82%		-0.27%	10.28%		-3.11%
Ukrain				-1.07%	13.2%*	17.3%*	-0.78%
Yemen	1			-0.02%			-0.03%
Afghar	nistan	0.61%	1.83%	-0.74%	2.85%	3.14%	-3.51%
Bangla	adesh	1.20%	1.08%	-0.50%	5.76%	7.33%	-3.90%
Cambo	odia			0.75%			-0.02%
India		-0.27%	-1.93%	0.53%	4.59%	3.59%	3.99%
Indone	esia	1.35%	4.16%	-0.30%	3.28%	3.53%	-1.72%
Laos				0.27%			-1.05%
Myann	nar			1.86%			1.72%
Nepal				0.47%			4.59%
Pakista		-0.02%	-2.49%	-4.39%	3.82%	3.15%	-5.78%
		-0.02%	2.62%	-4.39%	3.82%	5.03%	-2.95%
Philipp		0.07%	-3.77%	-0.86%	4.80%	7.17%	-2.95%
Sri Lan			-3.77%	-0.80%		1.23%	-2.30%
Timor-		1.27%	0.92%	1.000	1.75%	1.23%	
Thailar	nd Im	-1.09%		4.34%	-2.21% 2.82%		-0.13%

Source: Trading Economics.

Notes:

The calculation of quarterly changes uses averages of indices.
A negative value in the exchange rate indicates the depreciation of the national currency.

\* Where indices were not available, y/y changes are not based on quarterly average but on the inflation rate of the last month available.

# Impact of staple commodity price changes on the cost of the basic food basket



Map produced by: VAM - Food Security Analysis (OSZAF). Source: WFP; Base Map: GAUL



**Note:** This map is based on the calculations at subnational level of column M of the table on pages 8-13. Baseline prices are from Q1 2013-2017.

## Q1-2018 (January to March) vs. Q4-2017 (October to December)



Map produced by: VAM - Food Security Analysis (OSZAF). Source: WFP; Base Map: GAUL



Note: This map is based on the calculations at subnational level of column L of the table on page 8-13.

								>= 10%	Price trend Decreasing Stable Slightly increasing Increasing		Impact Low Moderate High Severe ↓			
egion	Country	Main staple food	Caloric contribution (%)	Change from last quarter (% change)	Seasonally adjusted quarterly change (% change)	Monthly change from last year (% change)	Quarterly change from last year (% change)	Quarterly change from baseline (% change)	Price trend	Quarterly cost share in food basket (%)		act of changes on bod basket from baseline (%)	# of years in baseline (the last 5 year [* see footnote	
А	В	С	D	E	F	G	Н		J	К	L	М	N	
		Wheat (flour, imported)	19	-3	+2	-6	-8	-20	$\rightarrow$	73			5	
	Bolivia	Maize (yellow)	13	-9	-13	-24	-22	-11	$\checkmark$	27	-2	-18	5	
		Maize (white)	13	0	-1	0	0	+9	$\checkmark$	26			5	
		Sugar	13	-2	-7	-8	-7	+15	$\checkmark$	33			5	
	Colombia	Rice (paddy)	12	0	-7	-11	-14	-19	$\checkmark$	19	-3	+3	5	
		Bananas	5	+5	+5	-8	-3	+5	R	23			5	
	Dominican Republic	Rice (first quality)	17	-1	-2	0	0	+2	$\checkmark$	100	-2	+2	5	
	Ecuador	Rice (long grain)	19	-3	-4	+1	0	+1	$\checkmark$	76	0	+1	5	
		Wheat (flour)	13	0	+9	-3	-3	-1	R	24	U	+1	4	
<u> </u>	Guatemala	Maize (white)	36	-1	-5	-1	-2	-14	$\checkmark$	100	-5	-14	5	
obea		Rice (local)	23	+6	+6	+24	+23	+27	R	45				2
Caril		Wheat flour (imported)	12	+2	0	-1	-1	+12	$\rightarrow$	15			5	
and	Haiti	Sugar (white)	11	-2	-1	-5	-5	-1	$\checkmark$	24	+2	+15	2	
Latin America and Caribbean		Maize meal (local)	9	+6	-1	+2	-1	+15	$\checkmark$	9			5	
Ame		Oil (vegetable, imported)	7	+3	+2	+7	+7	+20	$\rightarrow$	8			5	
tin/		Maize (white)	26	+11	+2	+19	+12	-9	$\rightarrow$	47			5	
Ľ	Honduras	Beans (red)	5	+3	+11	+10	+15	+7	<b>↑</b>	31	+4	-5	5	
		Rice (milled 80-20)	5	-4	-3	-16	-6	-11	$\checkmark$	23			5	
		Rice (milled 80-20)	17	0	0	-2	-2	-5	$\rightarrow$	29			4	
	Nicaragua	Sugar	15	-2	-3	0	0	-1	$\checkmark$	20	+1	-4	4	
	Micalagua	Bread	9	0	-1	-1	0	-3	$\checkmark$	35	+1	-4	4	
		Beans (red)	7	+5	+13	0	+2	-7	1	16			4	
		Rice (first quality)	24	0	0	0	0	-12	$\rightarrow$	38			5	
	Panama	Bread	12	0	+2	0	0	-11	$\rightarrow$	54	+1	-10	5	
		Maize	7	0	0	0	0	0	$\rightarrow$	9			5	
	Peru	Bread (french type)	14	0	0	+1	+1	+2	$\rightarrow$	100	0	+2	5	

(\*) Calculations based on nominal prices. For details, see 'Approach' on page 14.

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Region	Country	Main staple food	Caloric contribution	Change from last quarter	Seasonally adjusted quarterly		Quarterly change from	Quarterly change from	Price trend	Quarterly cost share in food		act of changes on ood basket	# of years in baseline
періон	country	inalit staple roou	(%)	(% change)	change (% change)	last year (% change)	last year (% change)	baseline (% change)	The trend	basket (%)	from previous quarter	from baseline (%)	(the last 5 years) [* see footnote]
А	В	С	D	E	F	G	Н	1	J	К	L	М	N
		Cassava (cossette)	53	-19	-19	-34	-39	-22	$\downarrow$	78			5
	Congo (DR)	Maize	14	-22	-24	-23	-26	+5	$\downarrow$	9	-19	-16	5
		Oil (palm)	5	-2	-6	+29	+22	+24	Ŷ	4			5
		Wheat flour	5	+6	+2	+7	+17	+10	÷	10			5
	Lesotho	Maize meal	56	-6	-7	-26	-26	-11	Ŷ	50	-5	-1	5
		Bread (brown)	14	0	-1	0	0	+12	Ŷ	50			5
	Madagascar	Rice (imported)	49	-1	-4	+5	+9	+31	$\downarrow$	100	-4	+31	3
	Malawi	Maize	53	+6	-12	-55	-52	-34	$\downarrow$	100	-12	-34	5
		Cassava flour	32	+1	+7	-27	-35	-20	٦	37			3
g		Maize (white)	20	+5	-6	-55	-57	-32	$\downarrow$	12			5
Southern Africa	Mozambique	Wheat flour (local)	9	-8	-13	-17	-19	+16	Ŷ	20	-5	-6	5
outhe		Rice (imported)	8	+2	+2	-8	-6	+37	÷	20			5
		Oil (vegetable, imported)	5	-15	-40	-33	-33	+2	Ą	11			2
		Maize (white)	25	0	-12	0	0	+19	Ŷ	21			5
	Swaziland	Wheat flour	16	-4	-4	-4	-3	+4	$\downarrow$	33	-5	+17	5
		Sugar (brown)	11	-2	-3	+13	+11	+40	$\downarrow$	27			5
		Rice	8	-2	-2	-1	+3	+16	$\downarrow$	18			5
		Maize	26	-7	-17	-55	-52	-28	Ŷ	30			5
	Tanzania	Rice	10	+3	-2	+12	+16	+21	Ŷ	47	-8	-1	5
		Beans	5	+1	-3	-2	0	+15	Ŷ	23			5
	Zambia	Maize (white)	51	+2	-8	-43	-35	-16	Ŷ	100	-8	-16	5
	Zimbabwe	Maize	41	+17	+1	-14	-18	-21	$\rightarrow$	100	+1	-21	5

Region	Country	Main staple food	Caloric contribution	Change from last quarter	Seasonally adjusted quarterly	and the second	Quarterly change from	Quarterly change from	Price trend	Quarterly cost share in food		act of changes on od basket	# of years in baseline
negion	country	mun stapic roou	(%)	(% change)	change (% change)	last year (% change)	last year (% change)	baseline (% change)	The trend	basket (%)	from previous quarter	from baseline (%)	(the last 5 years) [* see footnote]
A	В	С	D	E	F	G	Н	- 1	J	К	L	M	N
		Sweet potatoes	17	-15	-14	-7	+3	+68	$\downarrow$	55			5
	Burundi	Beans	16	-24	-24	-37	-37	-12	$\downarrow$	19	-20	+25	5
	Burunui	Cassava flour	13	-16	-22	-33	-24	+15	$\downarrow$	15	-20	723	5
		Maize (white)	13	-38	-35	-55	-42	-9	$\downarrow$	12			5
		Pasta	34	+1	+5	+1	-5	-16	٦	61			5
	Djibouti	Rice (imported)	17	0	+2	-1	-3	-9	÷	23	+3	-13	5
		Sugar	11	-2	-1	-9	-11	-8	$\downarrow$	16			5
	Ethiopia	Maize (white)	21	-5	-3	+20	+27	+57	$\downarrow$	28			5
Africa		Pasta	12	0	-3	+20	+20	+18	$\checkmark$	45	-4	+41	4
astern		Sorghum	12	-6	-5	+23	+37	+80	$\checkmark$	27			5
Central and Eastern Africa		Maize (white)	35	0	+4	+7	+2	+4	÷	28			5
Centra	Kenya	Bread	9	0	-4	-12	-12	-9	$\downarrow$	19	-2	+1	5
		Milk (cow, pasteurized)	7	-2	-7	-5	-6	+3	$\downarrow$	54			5
	Rwanda	Beans	11	+6	+19	+1	+3	+19	Ŷ	74	+11	+23	5
	rwanua	Maize	5	-7	-10	-26	-6	+35	$\downarrow$	26	+11	+25	5
	Controlio	Sorghum (red)	29	-15	-11	N/A	N/A	+12	$\downarrow$	73	-8	+11	2
	Somalia	Rice (imported)	9	-2	-1	+12	+16	+9	$\downarrow$	27	-0		5
	South Sudan	Sorghum (white, imported)	26	+8	+1	+57	+42	+372	÷	43	+7	+368	5
	South Sudan	Wheat flour	15	+9	+19	+66	+64	+365	Ŷ	57	+/	+368	4
	Uganda	Maize	9	-6	-9	-54	-44	-11	Ŷ	100	-9	-11	5

(\*) Calculations based on nominal prices. For details, see 'Approach' on page 14.

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Region	Country	Main staple food	Caloric contribution	Change from last quarter	Seasonally adjusted quarterly	Monthly change from	Quarterly change from	Quarterly change from	Price trend	Quarterly cost share in food			# of years in baseline
Region	country	Wall staple loou	(%)	(% change)	change (% change)	last year (% change)	last year (% change)	baseline (% change)	The trend	basket (%)	from previous quarter	Description         Changes on Assettion           image: image	(the last 5 years) [* see footnote]
А	В	С	D	E	F	G	Н	1	J	К	L	М	Ν
		Sorghum	26	+4	+6	+21	+21	+19	R	41			5
	Burkina Faso	Millet	22	-2	+2	+22	+25	+27	$\rightarrow$	39	+4	+20	5
		Maize	16	+4	+5	+15	+13	+11	7	20			5
		Maize	15	-10	-4	+9	0	-14	$\downarrow$	36			5
	Cameroon	Rice (local)	10	+7	+12	+13	+9	-9	$\uparrow$	47	+1	-13	5
		Sorghum (white)	8	-24	-12	-1	-8	-18	$\checkmark$	17			5
		Rice (long grain, imported)	19	+1	+3	+8	+2	-7	$\rightarrow$	42			5
	Cape Verde	Wheat (flour, imported)	13	-1	-3	N/A	-5	-12	$\downarrow$	20	0	+4	5
		Maize (white, local)	12	-1	+5	N/A	+7	+34	7	38			5
	Central African Republic	Cassava (cossette)	18	+4	+28	-3	-3	-20	$\uparrow$	72	+27	16	3
	Central Arrican Republic	Maize	13	+4	+39	-26	-26	-1	$\uparrow$	28	727	-10	3
		Sorghum (red)	18	+2	+3	+5	+9	-5	$\rightarrow$	45			5
	Chad	Millet	15	-1	+5	+15	+14	-11	7	41	0	-8	5
		Maize (white)	5	-9	-9	+8	+10	-9	$\downarrow$	14			5
		Rice (imported)	20	-1	0	-4	-3	-2	$\rightarrow$	14			5
	Côte d'Ivoire	Yam	20	-5	-26	-20	-13	+7	$\checkmark$	63	-15	+6	5
		Attiéké	12	+15	+10	+9	+8	+10	$\uparrow$	24			5
		Cassava	21	-5	-13	-41	-42	0	$\downarrow$	27			5
	Ghana	Maize	12	+7	-3	+24	+29	+35	$\downarrow$	13	-13		5
	Ghana	Yam	11	+4	-10	-33	-24	+14	$\checkmark$	38	-15	72	5
		Rice (imported)	8	-9	-15	-22	-23	-22	$\checkmark$	21		+16	3
		Rice (imported)	37	0	-1	+4	+11	+16	$\downarrow$	62			5
	Guinea	Cassava meal (gari)	12	+2	+5	+40	+27	+30	7	20	0		3
West Africa	Guillea	Oil (vegetable)	7	0	N/A	N/A	N/A	N/A	$\rightarrow$	11	U	+10	*
Ę		Oil (palm)	6	-6	-9	-7	-9	-6	$\checkmark$	7			5
t A		Rice (imported)	35	+9	+20	-1	+12	-6	1	56			5
sə,	Guinea-Bissau	Oil (vegetable, imported)	11	0	+1	+1	+1	+1	$\rightarrow$	16	+4	-10	5
3	Guillea-bissau	Fonio	8	-23	-21	-36	-34	-28	$\checkmark$	20	14	-10	4
		Sugar	5	-8	-10	-15	-13	-8	$\checkmark$	9			4
		Rice (imported)	21	0	-2	+2	+5	+4	$\checkmark$	46			5
	Mali	Millet	20	-3	+3	+21	+21	+21	$\rightarrow$	27	+1	+12	5
	Widii	Sorghum	13	+1	+5	+24	+21	+22	7	18			5
		Maize	9	+1	+3	+8	+6	+9	$\rightarrow$	10			5
		Wheat	30	-3	-2	+8	+7	-5	$\checkmark$	28			5
		Sugar	12	-1	+3	-8	-9	+5	$\rightarrow$	18			5
	Mauritania	Oil (vegetable)	11	0	-1	-2	-1	-3	$\downarrow$	13	+4	+11	5
		Rice (imported)	11	+1	-2	+9	+6	+17	$\checkmark$	23			5
		Sorghum (taghalit)	7	+16	+30	+72	+74	+67	$\uparrow$	18			5
		Millet	39	+3	+1	-1	+4	+6	$\rightarrow$	60			5
	Niger	Sorghum	11	-3	+1	0	+4	+8	$\rightarrow$	18	+1	+4	5
		Rice (imported)	7	-1	+1	+2	+2	-2	$\rightarrow$	22			5
		Sorghum (brown)	13	-10	-7	-20	-24	+29	$\downarrow$	26		-1	3
	North Nigeria	Millet	11	-1	-6	-19	-22	-13	$\checkmark$	22	-6		5
		Maize (white)	8	+4	-9	-31	-31	+15	$\downarrow$	13			3
		Rice (imported)	8	0	-1	-9	-11	-10	$\downarrow$	40			5
		Rice (imported)	30	0	-1	+2	+2	+4	$\downarrow$	70			5
	Senegal	Maize (imported)	10	-4	+2	+5	+2	0	$\rightarrow$	17	-2	+2	5
		Millet	8	-17	-13	-4	-4	-3	$\downarrow$	13			5
		Rice (imported)	40	-2	+3	-2	-2	+19	$\rightarrow$	75			4
	Sierra Leone	Cassava	9	+2	+21	+35	+39	+54	↑	12	+1	+20	4
		Oil (palm)	9	-7	-16	-12	-14	+3	$\checkmark$	13			4

Region	Country	Main staple food	Caloric contribution	Change from last quarter	Seasonally adjusted quarterly	and the second	Quarterly change from	Quarterly change from	Price trend	Quarterly cost share in food		act of changes on ood basket	# of years in baseline
inc Bronn	country	mun supre roou	(%)	(% change)	change (% change)	last year (% change)	last year (% change)	baseline (% change)	The trend	basket (%)	from previous quarter	from baseline (%)	(the last 5 years) [* see footnote]
А	В	С	D	E	F	G	Н	1	J	К	L	М	N
		Bread (first grade flour)	40	+6	+8	+11	+11	0	R	46			5
		Milk	8	-3	-4	-14	-13	-6	$\checkmark$	38			5
	Armenia	Sugar	8	-4	-5	+1	+1	0	$\checkmark$	6	+1	-3	5
		Potatoes	5	+7	+4	+24	+15	-1	$\rightarrow$	9			5
	Azorbaijan	Bread (high grade flour)	57	0	-3	+1	+1	+22	$\checkmark$	74	-4	+14	5
	Azerbaijan	Potatoes	6	+10	-5	+1	0	-4	$\checkmark$	26	-4	714	5
		Pasta	35	0	-4	0	0	+49	$\checkmark$	58			5
	Egypt	Rice	12	+4	-2	+11	+9	+52	$\checkmark$	22	-6	+56	5
		Sugar	7	0	-6	-3	+1	+89	$\checkmark$	20			5
	Coorgia	Bread	41	+2	+2	+3	+3	+6	$\rightarrow$	43	+2	-3	5
	Georgia	Milk (raw)	10	+2	+2	+3	+1	-9	$\rightarrow$	57	+2	-3	5
	Iron (Islamic Donublic of)	Rice (local)	9	0	-2	-2	+1	+51	$\checkmark$	76	2	142	5
	Iran (Islamic Republic of)	Sugar	9	0	-1	-10	-11	+22	$\checkmark$	24	-2	+43	5
.e	1	Wheat flour	25	+14	+17	+3	+1	+40	Ŷ	65	.7	+17	4
I As	Iraq	Rice	8	-3	-6	+7	+3	-10	$\checkmark$	35	+7	+17	4
ntra		Bread	40	-1	-3	-2	-2	0	$\checkmark$	40			5
E Ce	Kyrgyz Republic	Milk (non-pasteurized)	12	+7	+1	+7	+8	+5	÷	36		+5	5
Middle East, North African and Central Asia	Kyrgyz Republic	Sugar	9	-4	-4	-12	-14	-11	$\checkmark$	6	-1	+5	5
an		Potatoes	8	+10	-4	-2	+15	+25	$\checkmark$	18			5
ltric		Bread	40	-2	-1	+2	-1	-8	$\checkmark$	57			3
r P		Sugar	10	-2	-1	-9	-9	-4	$\checkmark$	11			3
P I	Palestine	Rice (small grain, imported)	7	+3	+2	-6	-7	-9	÷	11	-1	-6	3
st,		Oil (olive)	5	+2	N/A	0	+1	+1	÷	21			*
Ë	C. J.	Sorghum	60	+56	+57	+117	+112	+160	1	83	1.000		5
ġ	Sudan	Millet	9	+42	+43	+112	+123	+184	<b>↑</b>	17	+55	+164	5
Σ		Sugar	13	-19	-17	-55	-55	-2	$\checkmark$	55			5
	Syria	Oil	11	-16	-9	-27	-27	+36	$\checkmark$	45	-14	+12	5
		Bread	54	-2	-2	-6	-5	+15	$\checkmark$	91			5
		Sugar	7	-8	-9	-3	-3	+16	$\checkmark$	5			5
	Tajikistan	Oil (cotton)	6	-2	-4	+3	+4	+17	$\checkmark$	3	-2	+15	5
		Maize	5	+2	-1	+4	+10	+18	$\checkmark$	1		+18 +61	5
		Bread (common)	41	+8	N/A	+15	+16	+16	R	64			*
	Turkey	Sugar	8	-1	N/A	+8	+4	+4	$\checkmark$	8	+9		*
		Milk (pasteurized)	5	+13	N/A	+32	+28	+28	Ŷ	28			*
	Ukraine	Wheat	29	+6	-10	+11	+12	+61	$\checkmark$	100	-10		5
		Wheat	38	+13	+10	+12	+15	+33	<b>↑</b>	45			4
		Sugar	12	+10	+12	+8	+7	+29	Ŷ	21	10000		5
	Yemen	Oil (vegetable)	9	+8	+11	+16	+18	+11	Ŷ	10	+12	+42	5
		Rice (imported)	6	+17	+14	+45	+46	+116	<u>↑</u>	24			4

(\*) Calculations based on nominal prices. For details, see 'Approach' on page 14.

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Region	Country	Main staple food	Caloric contribution	Change from last quarter	Seasonally adjusted quarterly	and the second se	Quarterly change from	Quarterly change from	Price trend	Quarterly cost share in food		act of changes on ood basket	# of years in baseline
B.e.r.	,		(%)	(% change)	change (% change)	last year (% change)	last year (% change)	baseline (% change)		basket (%)	from previous quarter	from baseline (%)	(the last 5 years) [* see footnote]
A	В	С	D	E	F	G	Н	1	J	К	L	М	N
	Afghanistan	Bread	58	0	0	-1	-1	+1	÷	77	+1	+2	4
	Aighanistan	Rice (low quality)	22	+2	+1	+3	+6	+5	÷	23	*1	12	5
	Bangladesh	Rice (coarse)	70	+37	+35	+15	+14	+29	Ŷ	93	+33	+27	5
	Dangiauesn	Wheat flour	6	+7	+8	+11	+10	-1	ת	7	755	+27	5
	Cambodia	Rice (mix)	65	-1	+2	+4	+8	+4	÷	100	+2	+4	5
		Rice	31	0	0	+4	+5	+12	÷	52		+12	5
	India	Wheat	22	0	-2	0	0	+13	$\downarrow$	33	-2		5
		Sugar	7	-7	-6	-5	-3	+12	$\checkmark$	15			5
	Indonesia	Rice	50	+8	+5	+10	+10	+18	R	100	+5	+18	5
	Myanmar	Rice (emata, medium)	55	+5	+5	+12	+14	+45	R	100	+5	+45	5
Asia		Wheat	37	+3	-1	0	0	-4	$\downarrow$	19			4
As		Sugar	11	-4	+3	-15	-16	-7	÷	7			5
	Pakistan	Milk	9	0	+1	+1	+1	+3	÷	59	+1	+1	3
		Oil (cooking)	9	+1	-1	+1	+2	-6	$\checkmark$	9			5
		Rice (basmati, broken)	6	+4	+3	+21	+22	+13	÷	7			5
	Philippines	Rice (regular milled)	48	0	0	+2	+5	+8	÷	100	0	+8	5
	Sri Lanka	Rice (long grain)	41	-12	-21	+12	-2	+9	$\downarrow$	74	-16	+6	3
	Sir Lanka	Wheat flour	14	+1	+1	+1	+1	-2	÷	26	-10	+0	4
	Thailand	Rice (25% broken)	48	+3	+4	+1	0	-9	÷	100	+4	-9	5
	Timor-Leste	Rice (imported)	32	0	-2	+23	+23	+30	$\downarrow$	51	-1	+16	4
	Annoi-Leste	Maize	26	0	-1	0	0	+4	$\downarrow$	49	-1	.10	4
	Viet Nam	Rice (20% broken)	59	+5	+9	+25	+22	+16	7	100	+9	+16	5

# Approach

This bulletin examines price changes for staple food items and their impact on the cost of the basic food basket. For the most vulnerable population groups in developing countries, food often represents over 50% of total household expenditures, and staples contribute 40-80% of energy intake. Any change in staple food prices therefore has a big impact on overall food consumption, especially when the food basket is composed of very few items.

Monitoring the percentage changes of quarterly prices reveals whether recent changes are normal or abnormal when compared to a reference period (e.g. the previous quarter, the previous year or the baseline period).

Column D shows what each food item contributes to total household energy intake. The analysis is based on quarterly price<sup>1</sup> changes of the main food items (those that contribute at least 5% of caloric intake<sup>2</sup>):

- i) "Change from last quarter" (column E) shows how far quarterly nominal prices have changed from the previous quarter (percentage change).
- **ii)** "Seasonally adjusted quarterly change" (column F) shows how far quarterly prices have changed from the previous quarter, once prices have been adjusted for seasonality (percentage change). This indicator is calculated by dividing each monthly nominal price by its corresponding baseline average price.<sup>3</sup>
- iii) "Monthly change from last year" shows how the monthly nominal price has changed from the same month in the previous year (percentage change). The indicator reflects the data for the latest available month of the last quarter.
- iv) "Quarterly change from last year" (column H) is the percentage change of the quarterly nominal prices.
- v) "Quarterly price change from baseline" (column I) shows how far quarterly prices have changed from baseline average prices<sup>4</sup> (percentage change).

#### How the impact on the cost of the food basket is assessed

The **'cumulative impact of the quarter'** (column L) shows the partial (known) change in the total cost of the food basket since the previous quarter. The **'cumulative impact from the baseline'** (column M) shows the change from the baseline. This approach seeks to derive the quantities of food consumed from the caloric contribution of each item in order to estimate the cost of the food basket and from there, the impact of price changes.

The impact calculation assumes that each food basket provides 2,100 kcal a day, and that the proportional caloric contribution is a proxy of the relative importance of the item in the food basket. It comprises the following calculations:

a) the total food basket energy is multiplied by the proportion of each item to give the absolute energy (in kcal) each item contributes to the total energy intake; b) each item's absolute energy is divided by its caloric density<sup>5</sup> to give the weight of that item in the food basket; and c) each item's weight is multiplied by its unit nominal/seasonally adjusted price to calculate the relative cost of each food basket item.

Costs are only calculated for energy contributors for which prices are available. To avoid bias, the other energy contributors that fill the gap to 2,100kcal are ignored. Thus, the total cost of the known part of the food basket is the sum of the itemized commodity costs (step c).

The **'quarterly cost share of food basket'** (column K) indicates the proportion each item represents in the total cost of the known food basket. The cumulative impact values are then calculated by comparing the seasonally adjusted  $cost^6$  of the food basket with the cost in the previous quarter (column L) and against the baseline period (column M), as percentage changes. The likely impact is considered low when the percentage change is below 0, moderate when it is between 0 and 5%, high between 5 and 10%, and severe above 10%.

For further details on this approach, please visit <u>http://www.wfp.org/content/price-analysis-methods</u>

- 2. Caloric contributions are based on FAO 2005-2007 estimates.
- The baseline is an average of prices for the last five years of the same month. Note that this indicator requires a minimum two years' worth of data (see column N).
   See note 3 above.
- See note 3 above.
   Caloric densities are based on NutVal 4.0 estimates.
- 6. For countries where seasonally adjusted prices cannot be derived, the nominal food basket cost is considered to measure the impact.

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<sup>1.</sup> Prices are calculated as indices, using reference years. 'Last year' captures 12-month percentage changes, and 'last 5 years' captures percentage changes from long-term patterns.